

ABSTRACT

A clock shaping device is provided that includes: a first clock signal selection portion that receives an input of a reception clock signal and an input of a back-up clock signal from the outside, and selects either of the clock signals; a quartz crystal oscillation circuit that oscillates at a predetermined frequency; a second clock signal selection portion that receives an input of a clock signal from the first clock signal selection portion and an input of a clock signal from the quartz crystal oscillation circuit, and selects either of the clock signals; a voltage controlled oscillation circuit whose frequency varies with a control voltage being supplied and generates and outputs a feedback loop output signal; a phase comparison portion that generates a phase difference signal based on a result of comparing the feedback loop output signal from the voltage controlled oscillation circuit and a clock signal outputted from the second clock signal selection portion; and a loop filter that smoothes the phase difference signal and outputs the phase difference signal in the form of the